



PCP 20744

## Material Safety Data Sheet

May 5th 2004

**BUGCON ZEP DYNAMO PLUS****PCP 20744****ZEP MANUFACTURING CO****11627-178 ST EDMONTON AB T5S 1N6****1 877 453 5800****SECTION 1: MANUFACTURER INFORMATION**

MANUFACTURER

NATURAL PROPELLENT INC

P.O.BOX 63589 WOODSIDE SQ.MALL. 1571 SANDHURST CIRCLE

AGINCOURT, ONTARIO CANADA M1V 1V0

PRODUCT NAME..... same as above

FORMULATION #.....012-6-129.

CHEMICAL FAMILY.....PYRETHETERINE/PIPERONYL BUTOXIDE.

TRADE NAMES &amp; SYNONYMS.....SAME AS PRODUCT NAME.

PRODUCT USES.....INSECTICIDE.

CHEMICAL FORMULA.....NOT APPLICASBLE.

MOLECULAR WEIGHT.....NOT APPLICABLE.

T.D.G. CLASSIFICATION.....CONSUMER COMMODITY.

WHMIS CLASSIFICATION.....NOT APPLICABLE.

CNFC SECTION 3.3.5.....LEVEL 3.

NFPA CODE 30B.....LEVEL 3.

HMIS RATING FLAMMABILITY.....4 SEVERE HAZARD.

HMIS RATING HEALTH.....2 MODERATE HAZARD.

HMIS RATING REACTIVITY.....0 MINIMAL HAZARD.

**SECTION 02: HAZARDOUS INGREDIENTS**

| %                                | CAS / TLV     | LD/50, ROUTE, SPECIES | LC/50, ROUTE, SPECIES |
|----------------------------------|---------------|-----------------------|-----------------------|
| <b>PYRETHRINS</b>                |               |                       |                       |
| 0.400                            | 8003-34-7     | 1680 mg/kg            | NOT AVAILABLE         |
|                                  | 100 ppm       | ORAL - RAT            |                       |
| <b>PIPERONYL BUTOXIDE</b>        |               |                       |                       |
| 3.200                            | 51-31-6       | 7,5-10.0 g/kg         | NOT AVAILABLE         |
|                                  |               | ORAL - RAT            |                       |
| <b>ODOURLESS MINERAL SPIRITS</b> |               |                       |                       |
| 40-70                            | 64742-47-8    | >5000 mg/kg           | NOT AVAILABLE         |
|                                  | 100 ppm       | ORAL - RAT            |                       |
| <b>ISOBUTANE</b>                 |               |                       |                       |
| 10 - 30                          | 75-28-5       | NOT APPLICABLE        | 520,000ppm (2hr)      |
|                                  | NOT AVAILABLE | ORAL - RAT            | INHAL - HOUSE         |
| <b>PROPANE</b>                   |               |                       |                       |
| 1 - 5                            | 74-98-6       | NOT APPLICABLE        | NOT AVAILABLE         |
|                                  | 1000 ppm      |                       |                       |



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**SECTION 03: PHYSICAL DATA**

PHYSICAL STATE.....AEROSOL  
BOILING POINT (DEG C)(CONC).....171 - 205.  
VAPOUR PRESSURE(PSIG)-AEROSOL.....43 – 53. @ 20 C  
VAPOUR DENSITY (AIR=1).....GREATER THAN 1. (BY WEIGHT)  
SOLUBILITY IN WATER.....NEGLIGIBLE.  
APPEARANCE.....HAZY YELLOW LIQUID.  
ODOR.....PYRETHRIN.  
ODOR THRESHOLD.....NOT AVAILABLE.  
SPECIFIC GRAVITY (LIQUID).....0.78-0.82.  
SPECIFIC GRAVITY (AEROSOL).....0.66-0.70.  
AEROSOL PERCENT VOLATILE.....95-96. (BY WEIGHT)  
EVAPORATION RATE.....LESS THAN 1. n-BUTYL ACETATE = 1  
pH.....NOT APPLICABLE  
FREEZING POINT: (C).....NOT AVAILABLE.  
COEFFICIENT OF WATER/OIL.....NOT AVAILABLE. DIST.

**SECTION 04: FIRE & EXPLOSION DATA**

AEROSOL FLAME PROJECTION CLASSIFIED AS:.....>45 CM.  
FLASHBACK.....EXTREMELY FLAMMABLE.  
FLAMMABILITY.....EXCESSIVE HEAT.  
IF YES, UNDER WHICH.....EXCESSIVE HEAT, SPARKS AND OPEN FLAME.  
CONDITIONS ?  
EXTINGUISHING MEDIA.....CARBON DIOXIDE, DRY CHEMICAL, FOAM.  
SPECIAL PROCEDURES.....WATER FROM FOGGING NOZZLES MAY BE USED TO  
COOL CLOSED CONTAINERS TO PREVENT BUILD-UP  
IF EXPOSED TO EXTREME TEMPERATURES.FULL  
PROTECTIVE EQUIPMENT INCLUDING SELF  
CONTAINED BREATHING APPARTATUS SHOULD BE  
WORN IN A FIRE INVOLVING THIS MATERIAL.  
FLASH POINT(C),TAG CLOSED-CUP.....>43. (CONCENTRA TE)  
AUTO IGNITION TEMPERATURE (C).....NOT AVAILABLE.  
LOWER FLAMMABLE LIMIT.....1. (% BY VOLUME)  
UPPER FLAMMABLE LIMIT.....9.5(% BY VOLUME)  
HAZARDOUS COMBUSTION PRODUCTS.....HYDROCARBON FUMES AND SMOKE. CARBON  
MONOXIDE WHERE COMBUSTION IS INCOMPLETE.  
EXPLOSION DATA SENSITIVITY TO STATIC.....NOT APPLICABLE.  
SENSITIVITY TO IMPACT.....NOT APPLICABLE.

**SECTION 05: REACTIVITY DATA**

CHEMICAL STABILITY: YES.....UNDER NORMAL CONDITIONS.  
NO, WHICH CONDITIONS?.....NOT APPLICABLE.  
COMPATABILITY WITH OTHER SUBSTANCES : NO, WHICH ONES?.. STRONG OXIDIZING AGENTS.  
HAZARDOUS PRODUCTS OF DECOMPOSITION..... HYDROCARBON FUMES AND SMOKE.  
CARBON MONOXIDE WHERE COMBUSTION IS INCOMPLETE.  
HAZARDOUS POLYMERIZATION.....WILL NOT OCCUR.  
REACTIVITY CONDITIONS?.....NOT APPLICABLE.

**SECTION 06: TOXICOLOGICAL PROPERTIES****ROUTE OF ENTRY:**

SKIN CONTACT.....MAY CAUSE IRRITATION.  
SKIN ABSORPTION.....NO DATA AVAILABLE FOR THIS PRODUCT MIXTURE.  
EYE CONTACT.....VAPOUR MAY IRRITATE.  
INHALATION.....INHALATION OF SOLVENTS MAY CAUSE IRRITATION. PROPELLANT IS A SIMPLE ASPHYXIAN.  
INGESTION.....MAY CAUSE HEADACHE, NAUSEA, VOMITING AND WEAKNESS.  
EFFECTS OF ACUTE EXPOSURE.....DIZZINESS, NAUSEA. IRRITATION TO SKIN & EYES.  
EFFECTS OF CHRONIC EXPOSURE.....SOLVENTS MAY CAUSE DEFATTING DERMATITIS.  
EXPOSURE LIMIT OF MATERIAL.....SEE SECTION II.  
IRRITANCY OF MATERIAL.....SLIGHT.  
SENSITIZING CAPABILITY OF.....UNKNOWN.  
MATERIAL CARCINOGENICITY OF MATERIAL.....THE INGREDIENTS OF THIS PRODUCT ARE NOT LISTED AS CARCINOGENS BY NTP, (NATIONAL TOXICOLOGY PROGRAM), NOT REGULATED AS CARCINOGENS BY OSHA, (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION), AND HAVE NOT BEEN EVALUATED BY IARC, (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER), NOR BY ACGIH (AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS).  
REPRODUCTIVE EFFECTS.....NO INFORMATION IS AVAILABLE AND NO ADVERSE REPRODUCTIVE EFFECTS ARE ANTICIPATED.  
TERATOGENICITY.....NO INFORMATION IS AVAILABLE AND NO ADVERSE TERATOGENIC EFFECTS ARE ANTICIPATED.  
MUTAGENICITY.....NO INFORMATION IS AVAILABLE AND NO ADVERSE MUTAGENIC EFFECTS ARE ANTICIPATED.  
SYNERGISTIC MATERIALS.....NONE KNOWN.

**SECTION 07: PREVENTIVE MEASURES**

GLOVES/ TYPE.....NOT NORMALLY REQUIRED.  
RESPIRATORY/TYPE.....NOT NORMALLY REQUIRED.  
EYE/TYPE.....SAFETY GLASSES.  
FOOTWEAR/TYPE.....NOT NORMALLY REQUIRED.  
OTHER/TYPE.....NOT REQUIRED.  
ENGINEERING CONTROLS.....VENTILATION - LOCAL (MECHANICAL IF USED INDOORS ON A CONTINUOUS BASIS).  
LEAK/SPILL.....REMOVE ALL SOURCES OF IGNITION. USE AN INERT ABSORBENT MATERIAL, AND NON-SPARKING TOOLS. AVOID BREATHING FUMES. VENTILATE AREA. PREVENT FROM ENTERING A WATERCOURSE.  
HANDLING PROCEDURES AND EQUIPMENT.....STORE IN A COOL, WELL VENTILATED AREA NOT TO EXCEED 50 DEG C.  
WASTE DISPOSAL.....DO NOT PUNCTURE OR INCINERATE CONTAINERS, EVEN WHEN EMPTY. DISPOSE OF IN ACCORDANCE WITH LOCAL, PROVINCIAL AND FEDERAL REGULATIONS.  
STORAGE NEEDS.....KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES.  
SPECIAL SHIPPING INSTRUCTIONS.....SEE SECTION 1.....TDG CLASSIFICATION.

**SECTION 08: FIRST AID MEASURES****EMERGENCY FIRST AID**

PROCEDURE.....IN CASE OF EYE CONTACT, FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION. FOR SKIN, WASH THOROUGHLY WITH SOAP AND WATER. IF AFFECTED BY INHALATION OF VAPOUR OR SPRAY MIST, REMOVE TO FRESH AIR. IF SWALLOWED; DO NOT INDUCE VOMITING, GET MEDICAL ATTENTION.



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### **SECTION 09: ADDITIONAL INFORMATION**

THE INFORMATION ON THIS MATERIAL SAFETY

NOTICE FROM **ZEP and BUGCON**

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DATED..... May 5th 2004

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